

Product datasheet for TP303922L

TMEM24 (C2CD2L) (NM_014807) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human C2CD2-like (C2CD2L), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203922 protein sequence Red=Cloning site Green=Tags(s)

MDPGWGQRDVGWAALLILFAASLLTVFAWLLQYARGLWLRARGDRGPGPALAGEPAGSLRELGVWRSLL
RLRATRAGAAEPEGVRGLLASLFAFKSFRENWQRAWVRALNEQACRNGSSIQIAFEVFPQLPPRASISHV
TCVDQSEHTMVLRCQLSAEEVRFVSVTQQSPAAVSMETYHVTLTLPTQLEVNLEEIPGEGLLISWAFT
DRPDLSTVLPKLRARERGEEQVELSTIEELIKDAIVSTQPAMMVNLRACSAAGGLVPSEKPPMMPQAQP
AIPRPNRFLRQLRASHLGNELEGTEELCCVAELDNPMQKQWTKPARAGSEVEWTELDALDLGPQSRELT
LKVLRSSSCGDTELLGQATLPVGSPSRPLSRRQLCPLTPGPGKALGPAATMAVELHYEEGSPRNLTPTS
STPRPSITPKKIELDRTIMPDTGIVTTVTTVQSRPRIDGKLDSPSRSPSKVEVTEKTTTTLSESSGPSN
TSHSSSRDHLNGLDPAETAIRQLTEPSGRVAKKTPTKRSTLIISGVSKVPIAQDELALSLGYAASLE
ASVQDDAGTSGGPSSPPSDPPAMSPGPLDALSSPTSVQEADETTTSDISERPSVDDISETGSTGALETR
SLKDHKVSFLRSGTKLIFRRRPRQKEAGLSQSHDDLSTATATPSVRKKAGSFSRRLIKRFSFKSKPKANG
NPSPQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	76 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_055622](#)

Locus ID: 9854

UniProt ID: [O14523](#)

RefSeq Size: 3402

Cytogenetics: 11q23.3

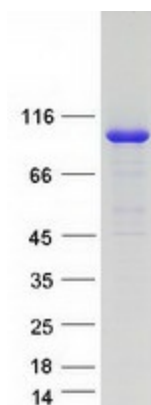
RefSeq ORF: 2118

Synonyms: DLNB23; TMEM24

Summary: Lipid-binding protein that transports phosphatidylinositol, the precursor of phosphatidylinositol 4,5-bisphosphate (PI(4,5)P2), from its site of synthesis in the endoplasmic reticulum to the cell membrane (PubMed:28209843). It thereby maintains the pool of cell membrane phosphoinositides, which are degraded during phospholipase C (PLC) signaling (PubMed:28209843). Plays a key role in the coordination of Ca(2+) and phosphoinositide signaling: localizes to sites of contact between the endoplasmic reticulum and the cell membrane, where it tethers the two bilayers (PubMed:28209843). In response to elevation of cytosolic Ca(2+), it is phosphorylated at its C-terminus and dissociates from the cell membrane, abolishing phosphatidylinositol transport to the cell membrane (PubMed:28209843). Positively regulates insulin secretion in response to glucose: phosphatidylinositol transfer to the cell membrane allows replenishment of PI(4,5)P2 pools and calcium channel opening, priming a new population of insulin granules (PubMed:28209843).[UniProtKB/Swiss-Prot Function]

Protein Families: Transmembrane

Product images:



Coomassie blue staining of purified C2CD2L protein (Cat# [TP303922]). The protein was produced from HEK293T cells transfected with C2CD2L cDNA clone (Cat# [RC203922]) using MegaTran 2.0 (Cat# [TT210002]).